AC L2003

UV-Curable, High Refractive Index Optical Material for Lens Applications

Features

- High Tg
- High refractive index
- · Good flow properties
- High Hardness

Description

• UV-Curable Adhesive

APPLICATIONS

Optical lens applications

| TYPICAL PROPERTIES | |
|---|---|
| Liquid Viscosity (cps, 25 °C) Storage (°C) Shelf life (20 - 25 °C) Pot life (20 - 25 °C) | 6,500 – 8,300 15 to 25 6 months 3 months |
| Cured film Shrinkage (linear, %) | < 0.3 |
| Glass transition temperature (°C, DMA) | 91 |
| Hardness – Shore D | 82 |
| Refractive index of cured film (25°C) @ 486 nm @ 589 nm @ 656 nm | 1.542 1.533 1.530 |
| Coefficient of thermal expansion (TMA), 75 μm film below Tg (x10-6), °C-1 above Tg (x10-6), °C-1 | 20 123 |
| Physical properties tested at 25°C, 50% RH (ASTM D63 Elongation (%) Modulus, psi (kg/mm²) | 88) 14 143,000 (100) |
| Operating temperature (°C) | -40 to 140 |
| UV curing conditions Spot cure system – UV dose (J/cm²),air 250 – 450 nm filter | 2.0 to 2.5 |
| Flood cure system – UV dose (J/cm²), air | 0.6 to 1.0 |

Minimum intensity recommended for Spot lamp system: 100 mW/cm²

SAFETY AND HANDLING

The un-cured adhesive can be cleaned from apparatus with isopropyl alcohol (IPA), methyl ethyl ketone (MEK), or commercial alcohol based cleaning solution.

Use caution in handling this material. Avoid direct skin and eye contact. Use only in well ventilated areas. Use protective clothing, gloves and safety goggles. Read Material Safety Data Sheet before handling.

The information presented here represents our best available information and does not constitute any guarantee or warranty. It is our responsibility to manufacture quality products that meet our published typical specifications and to package them in appropriate containers. Our responsibility is limited to the replacement of any materials found to be defective or not in compliance with our published specifications. Compatibility with specific substrates must be evaluated by the user

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^{**} Intensity recommended for Flood lamp system: 49 WPcm or 125 WPI